BRUHATH BANGALORE MAHANAGARA PALIKE
Byatarayanapura Division

Name of the work: Package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)Asphalting road and Improvements to drains at Manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3) providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to Tejraj compound in ward no.6 byatarayanapura sub division

First and Final Bill
Test Reports

TEJUS CONSULTANTS

Test Report on Compressive strength of Solid Block

Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	shri lakshmi infra india pvt ltd.sri.mr.krishna naik,nisaranilaya,2nd main ,4th cross, lbs nagara,shimoga dist - 577201
Cross sectional area	80000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	11.01.2019	11.01.2019	80000	406.00	5.08	5.05	5.00
2	11.01.2019	11.01.2019	80000	402.00	5.03		
3	11.01.2019	11.01.2019	80000	404.00	5.05		

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

Authorised Signatory

Test Report on Compressive strength of Solid Block

Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	shri lakshmi infra india pvt ltd.sri.mr.krishna naik,nisaranilaya,2nd main ,4th cross, lbs nagara,shimoga dist - 577201
Cross sectional area	80000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Obtained Average compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2	N/mm^2
1	11.01.2019	11.01.2019	80000	407.00	5.09	5.08	5.00
2	11.01.2019	11.01.2019	80000	409.00	5.11		
3	11.01.2019	11.01.2019	80000	402.00	5.03		

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-03-02-09** **Date: 17-01-2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Package-1, Includes 3 Works of Rs.100.00 Lakhs 1)Providing Cement Concrete Roads at Nagawara Colony in Ward No. 06 Byatarayanapura Sub Division. 2)Asphalting Road and Improvements to Drains at Manjunatha Layout 1st, 2nd and 3rd Cross Roads in Ward No. 06 Byatarayanapura Sub Division. 3)Providing Cement Concrete Road and Drains at Bharathnagar High Tension Road Both Side Cross Roads from Milk Dairy to Tejraj Compound in Ward No. 06 Byatarayanapura Sub Division.
Agency	:	Shri Lakshmi Infra India Pvt Ltd. Sri.M.R.Krishna Naik, Nisarganilaya, 2nd Main, 4th Cross, LBS Nagara, Shimoga Dist-577201.
Customer's Reference	:	BBMP/EE/BTP/WO/206/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-2019
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	16-01-2019

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.394	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.619	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO Sig..... Date..... BANGALORE

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	shri lakshmi infra india pvt ltd.sri.mr.krishna naik,nisaranilaya,2nd main ,4th cross, lbs nagara,shimoga dist -577201
Name of Work	:	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
No.of Sample Tested	:	3
Date of Testing	:	18.01.19
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}. 250mm Thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	180.00	3.385	2394.40	1.80	0.960	159.00	20.24	21.86	20.99	26.24
2	100.00	180.00	3.425	2422.69	1.80	0.960	159.23	20.27	21.90	21.02	26.27
3	100.00	180.00	3.422	2420.57	1.80	0.960	159.65	20.33	21.95	21.08	26.34

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 15 days from the date of

Consultant's Representative

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	shri lakshmi infra india pvt ltd.sri.mr.krishna naik,nisaranilaya,2nd main ,4th cross, lbs nagara,shimoga dist -577201
Name of Work	:	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
No.of Sample Tested	:	3
Date of Testing	:	18.01.19
Technical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} . 250mm Thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	180.00	3.385	2394.40	1.80	0.960	158.63	20.20	21.81	20.94	26.18
2	100.00	180.00	3.425	2422.69	1.80	0.960	159.45	20.30	21.93	21.05	26.31
3	100.00	180.00	3.422	2420.57	1.80	0.960	159.56	20.32	21.94	21.06	26.33

Note:

. The report shall not be reproduced, except in full, without the written approval of the laboratory.

. The results indicated above are based on the tests carried out on the samples received in the laboratory.

. Any Query regarding the report must be reported reported within 15 days from the date of

Consultant's Representative

TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

ıt	:	Bruhat Bangalore Mahanagara Palike
ractor	:	shri lakshmi infra india pvt ltd.sri.mr.krishna naik,nisaranilaya,2nd main ,4th cross, lbs nagara,shimoga dist -577201
e of Work	:	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and imprurments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
'Sample Tested	:	3
of Testing	:	18.01.2019
nical Reference	:	**IS:516-1959 (Reaffirmed 1999), SP-24:1983.**
e of Concrete	:	M_{20} - 100mm thick

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	50	140	0.66	2400.966	2.80	0.96	38.30	19.506	21.067	20.224	25.280
	50	140	0.66	2400.966	2.80	0.96	38.15	19.430	20.984	20.145	25.181
	50	140	0.66	2400.966	2.80	0.96	38.23	19.470	21.028	20.187	25.234

e report shall not be reproduced, except in full, without the written approval of the laboratory.
e results indicated above are based on the tests carried out on the samples
ved in the laboratory and Site
y Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

nt	:	Bruhat Bangalore Mahanagara Palike
ractor	:	shri lakshmi infra india pvt ltd.sri.mr.krishna naik,nisaranilaya,2nd main ,4th cross, lbs nagara,shimoga dist -577201
e of Work	:	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
f Sample Tested	:	3
of Testing	:	18.01.2019
inical Reference	:	**IS:516-1959 (Reaffirmed 1999), SP-24:1983.**
e of Concrete	:	M_{20} - 100mm thick

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	50	140	0.66	2400.966	2.80	0.96	38.00	19.353	20.902	20.065	25.082
	50	140	0.66	2400.966	2.80	0.96	38.10	19.404	20.957	20.118	25.148
	50	140	0.66	2400.966	2.80	0.96	38.20	19.455	21.012	20.171	25.214

:

ıe report shall not be reproduced, except in full, without the written approval of the laboratory.
ıe results indicated above are based on the tests carried out on the samples
ved in the laboratory and Site
ıy Query regarding the report must be reported reported within 15days from the date of testing.

Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	shri lakshmi infra india pvt ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	23.01.2019
Period of Soaking	24 hours	Date of Testing	23.01.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	648	679	658	
B	Weight of oven - dry sample gm.	641	672	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1701	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.660	2.656	2.667	**2.661**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.092	1.042	1.543	**1.226**

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Consultants	Tejus Consultants, Bangalore
Contractor	shri lakshmi infra india pvt ltd.

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/ M sand)**	**Proposed Use**	concrete
Sample Location	At Site/Plant	**Date of Sampling**	23.01.2019
		Date of Testing	23.01.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	306	516	17.20	82.80	75 - 100
1.18 mm	422	938	31.27	68.73	55 - 90
0.600 mm	486	1424	47.47	52.53	35 -59
0.300 mm	710	2134	71.13	28.87	8-30
0.150 mm	632	2766	92.20	7.80	0 - 10
Pan	234	3000			-

Remarks : Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	shri lakshmi infra india pvt ltd.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Location/Source	At Site/Plant	Date of Sampling	23.01.2019
Period of Soaking	24 hours	Date of Testing	23.01.2019

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	648	678	658	
B	Weight of oven - dry sample gm.	641	670	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1701	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.660	2.659	2.667	**2.662**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.092	1.194	1.543	**1.276**

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Consultants	Tejus Consultants, Bangalore
Contractor	shri lakshmi infra india pvt ltd.

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/ M sand)**	**Proposed Use**	concrete
Sample Location	At Site/Plant	**Date of Sampling**	23.01.2019
		Date of Testing	23.01.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	208	208	6.93	93.07	90 - 100
2.36 mm	302	510	17.00	83.00	75 - 100
1.18 mm	402	912	30.40	69.60	55 - 90
0.600 mm	482	1394	46.47	53.53	35 -59
0.300 mm	760	2154	71.80	28.20	8-30
0.150 mm	638	2792	93.07	6.93	0 - 10
Pan	208	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	shri lakshmi infra india pvt ltd.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	23.01.2019
		Date of Testing	23.01.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	253	253	2.53	97.47	95 - 100
10.00 mm	4832	5085	50.85	49.15	25 - 55
4.75 mm	4216	9301	93.01	6.99	0 - 10
Pan	699	10000			

Remarks : Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Consultants	Tejus Consultants, Bangalore
Contractor	shri lakshmi infra india pvt ltd

SIEVE ANALYSIS

Total Weight:	**3000** gms		
Type of Material	**Fine aggregate (River Sand/ M sand)**	**Proposed Use**	concrete
Sample Location	At Site/Plant	**Date of Sampling**	31.01.2019
		Date of Testing	31.01.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	**100**
4.75 mm	230	230	7.67	92.33	**90 - 100**
2.36 mm	300	530	17.67	82.33	**75 - 100**
1.18 mm	410	940	31.33	68.67	**55 - 90**
0.600 mm	482	1422	47.40	52.60	**35 -59**
0.300 mm	710	2132	71.07	28.93	**8-30**
0.150 mm	625	2757	91.90	8.10	**0 - 10**
Pan	243	3000			-

Remarks : Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

TEJUS CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	shri lakshmi infra india pvt ltd
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	31.01.2019
		Date of Testing	31.01.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	270	270	2.70	97.30	95 - 100
10.00 mm	4850	5120	51.20	48.80	25 - 55
4.75 mm	4225	9345	93.45	6.55	0 - 10
Pan	655	10000			

Remarks : Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

TEJUS
CONSULTANTS

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	shri lakshmi infra india pvt ltd
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	31.01.2019
		Date of Testing	31.01.2019

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	271	271	2.71	97.29	95 - 100
10.00 mm	4853	5124	51.24	48.76	25 - 55
4.75 mm	4225	9349	93.49	6.51	0 - 10
Pan	651	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

TEJUS
CONSULTANTS

Test Report on Cement

Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	shri lakshmi infra india pvt ltd.
Sample ID	Cement
Date of Sample Tested	31.01.2019
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	39	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	251	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	2.00	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory /Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	shri lakshmi infra india pvt ltd
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02.02.2019	09.02.2019	7 days	8.300	22500	404	17.96	18.04
2	02.02.2019	09.02.2019	7 days	8.320	22500	405	18.00	
3	02.02.2019	09.02.2019	7 days	8.325	22500	409	18.18	

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS
CONSULTANTS

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	package-1 includes 3 works of Rs.100.00 lakhs 1) providing cement concrete roads at nagawara colony ward no .06 byatarayanapura sub division. 2)asphalting road and impruments to drains at manjunatha layout 1st ,2nd and 3rd cross roads in ward no. 06 byatarayanapura sub division. 3)providing cement concrete road and drains and bharathnagar high tension road both side cross roads from milk diary to teraj compound in ward no.6 byatarayanapura sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	shri lakshmi infra india pvt ltd
Grade of concrete:	M30
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	02.02.2019	02.03.2019	28 days	8.135	22500	685	30.44	30.34
2	02.02.2019	02.03.2019	28 days	8.140	22500	681	30.27	
3	02.02.2019	02.03.2019	28 days	8.142	22500	682	30.31	

Note:
1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory/Site.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

TEJUS CONSULTANTS

Authorised Signatory

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com